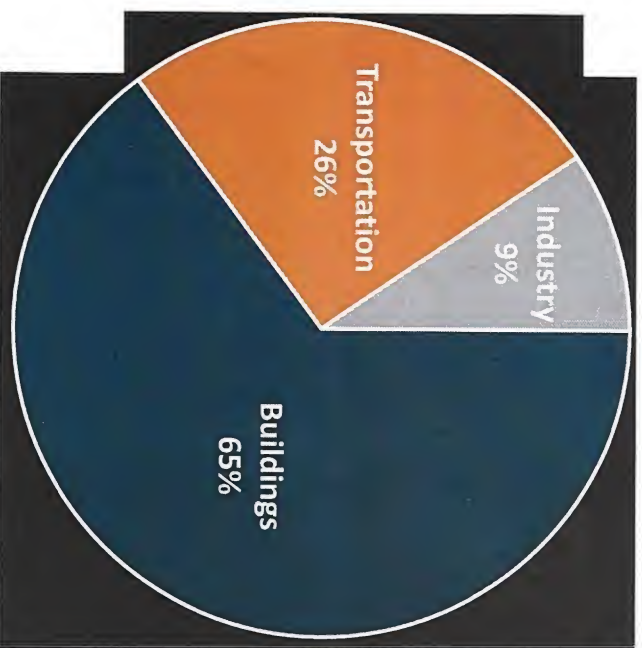


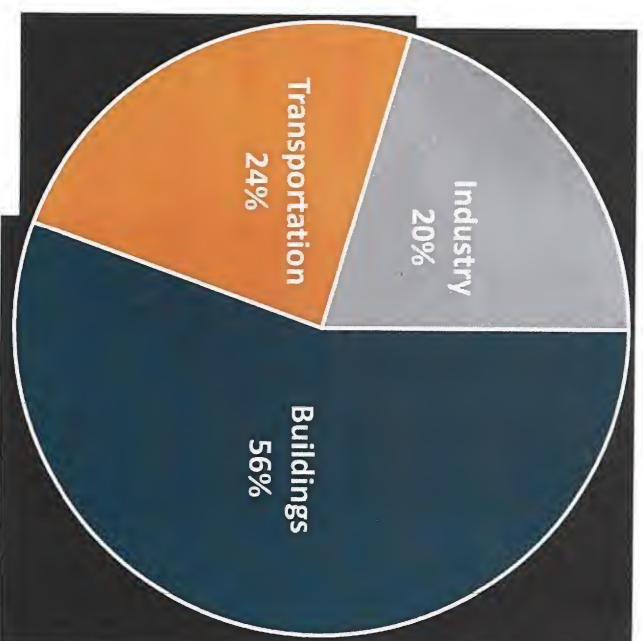


Impact of Buildings in Des Moines

Energy Consumption by Sector



CO₂ Emissions by Sector

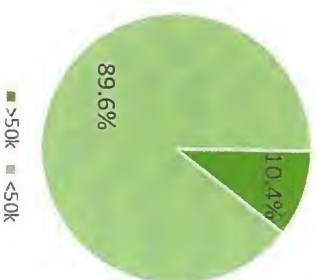




Policy Threshold: 50K vs 25K square feet

50,000 sq. ft. = 478 buildings

25,000 sq. ft. = 819 buildings



■ >50k ■ ≤50k



■ Not Covered
■ Covered

62.2% of commercial building stock



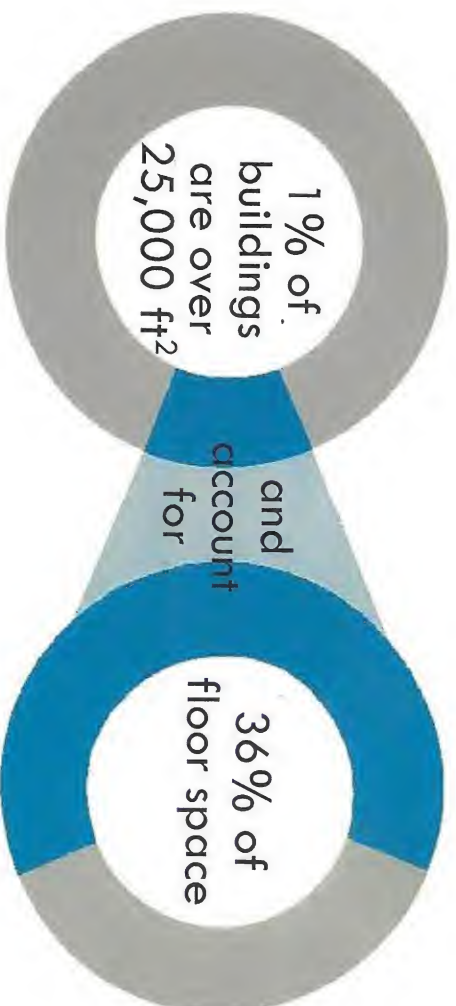
■ >25k ■ ≤25k



■ Not Covered
■ Covered

73.1% of commercial building stock

Focus on large existing buildings, maximize impact



By focusing on buildings over 25,000 sq. ft., we can address over a third of the square footage in the city (including single family homes) while affecting only the largest 1% of buildings



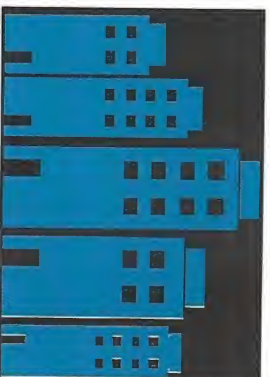
The opportunity in Des Moines



56%

of Des Moines' climate pollution comes from

energy usage in our buildings

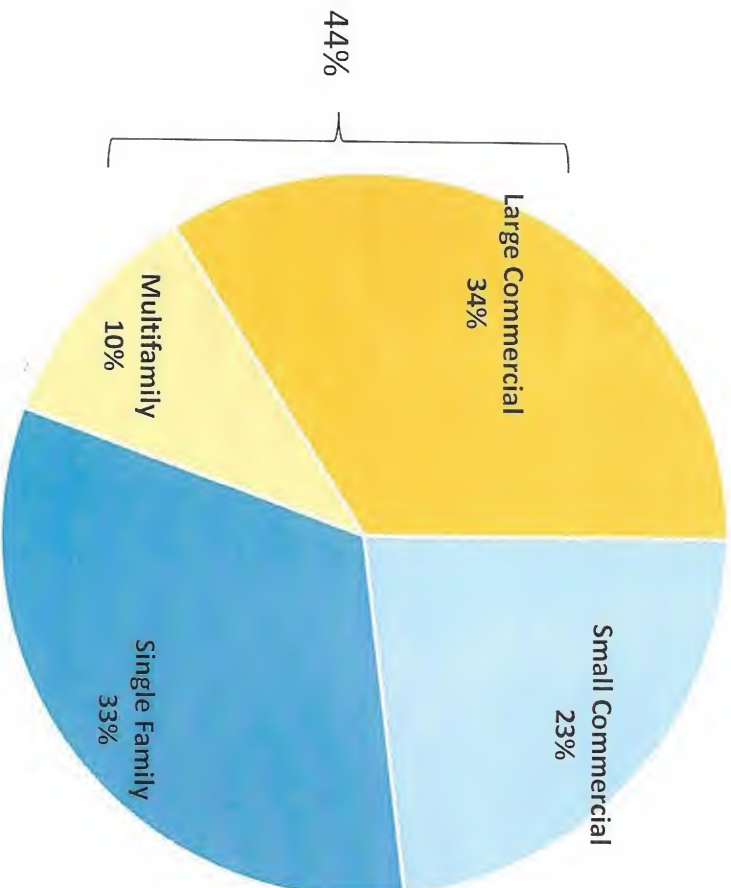


On average, buildings waste 30%

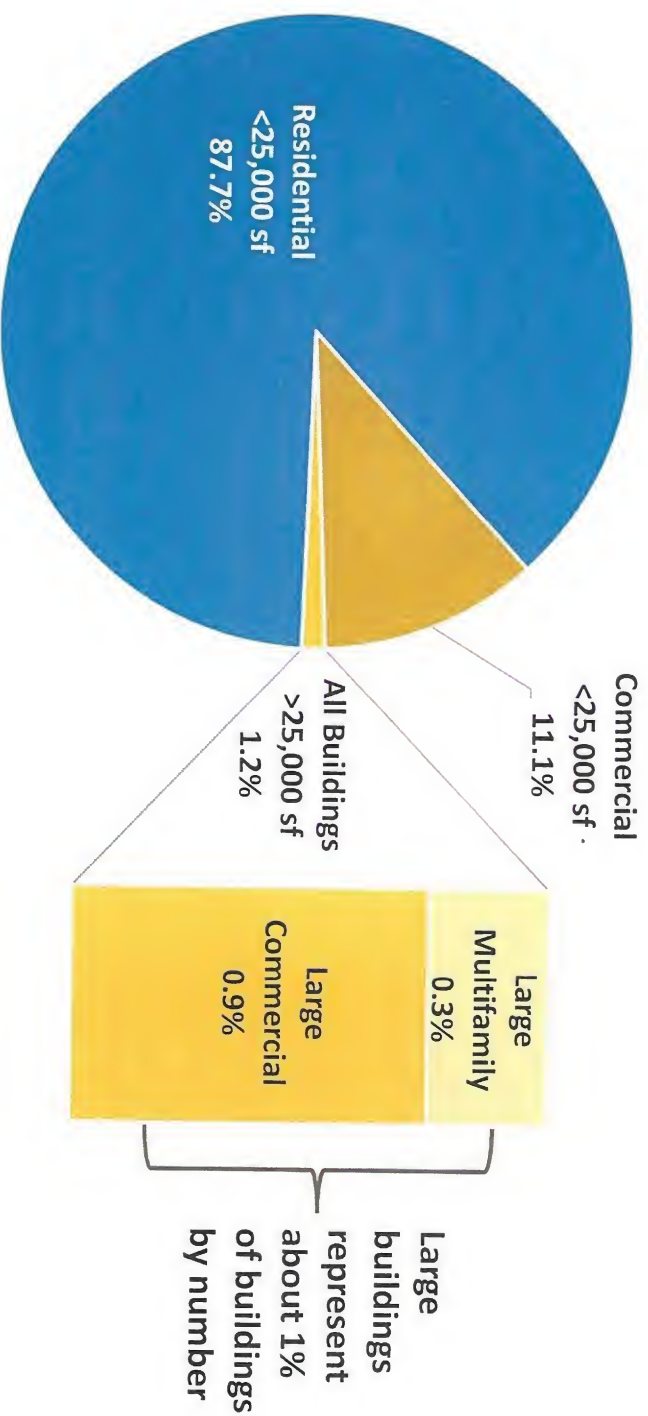
of their energy and water due to inefficiencies and poor operation

Energy Consumption – Large vs. Small Buildings

Buildings over 25,000 sq. ft. represent 44% of Des Moines' building energy use

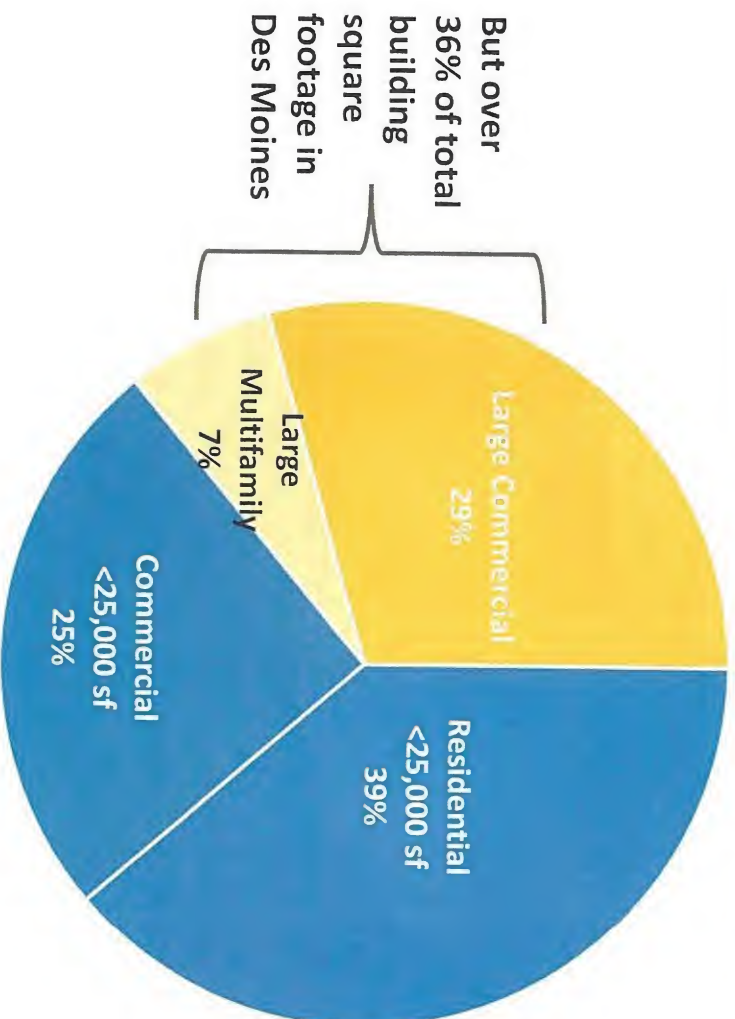


Building Stock Breakdown - by number of buildings



*including single family residential buildings

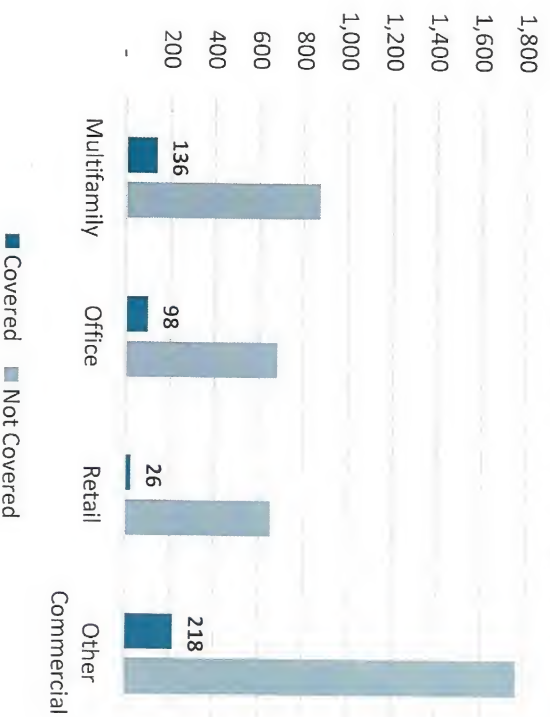
Building Stock Breakdown – by square footage



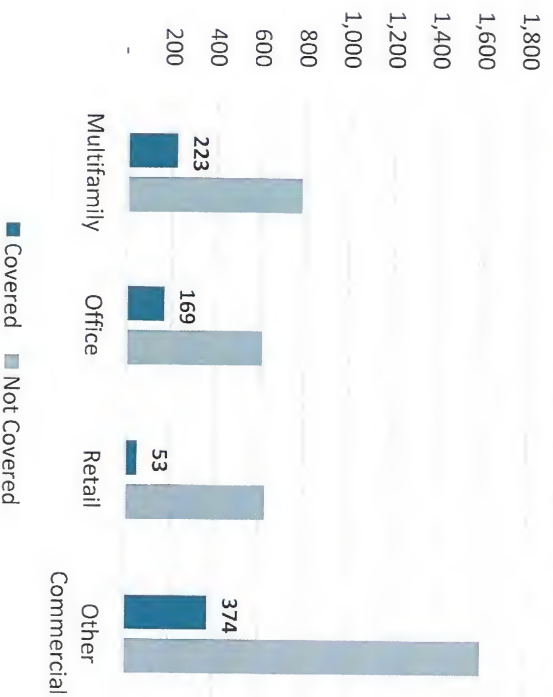
*including single family residential buildings

Building Stock Distribution – 50K vs .25K

Number of Buildings By Type, 50K



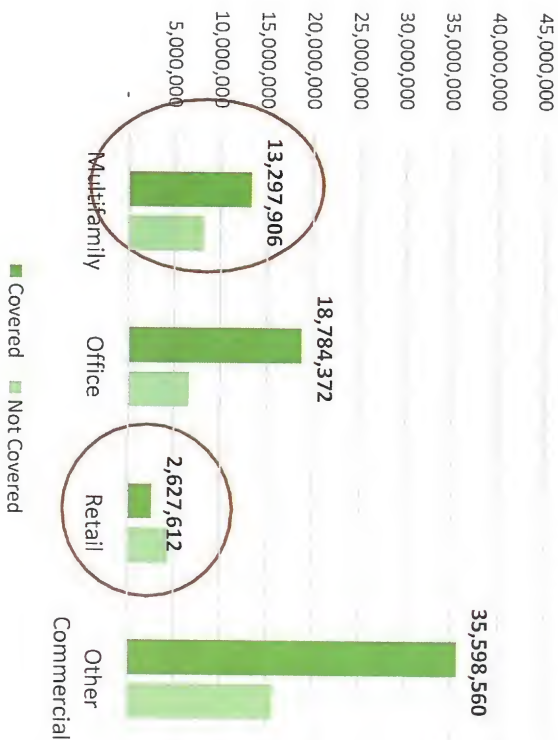
Number of Buildings By Type, 25K



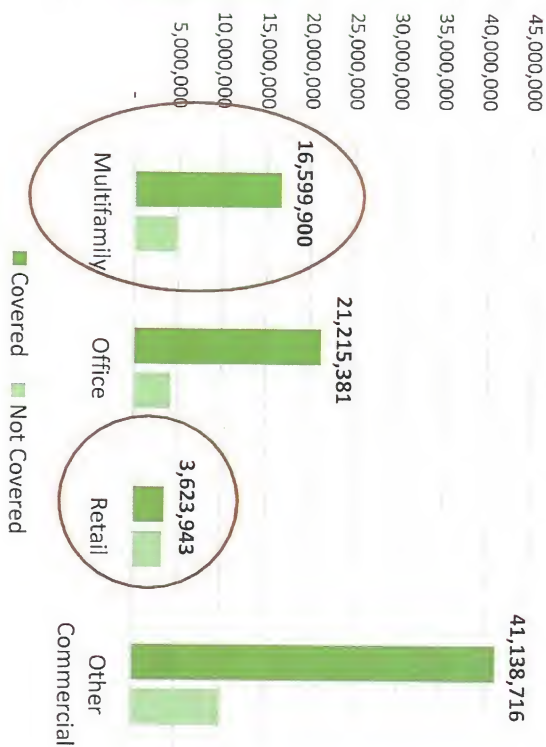
*excluding single family residential buildings

Building Stock Distribution – 50K vs 25K

Gross Sq Feet by Type, 50K



Gross Sq Feet by Type, 25K



*excluding single family residential buildings



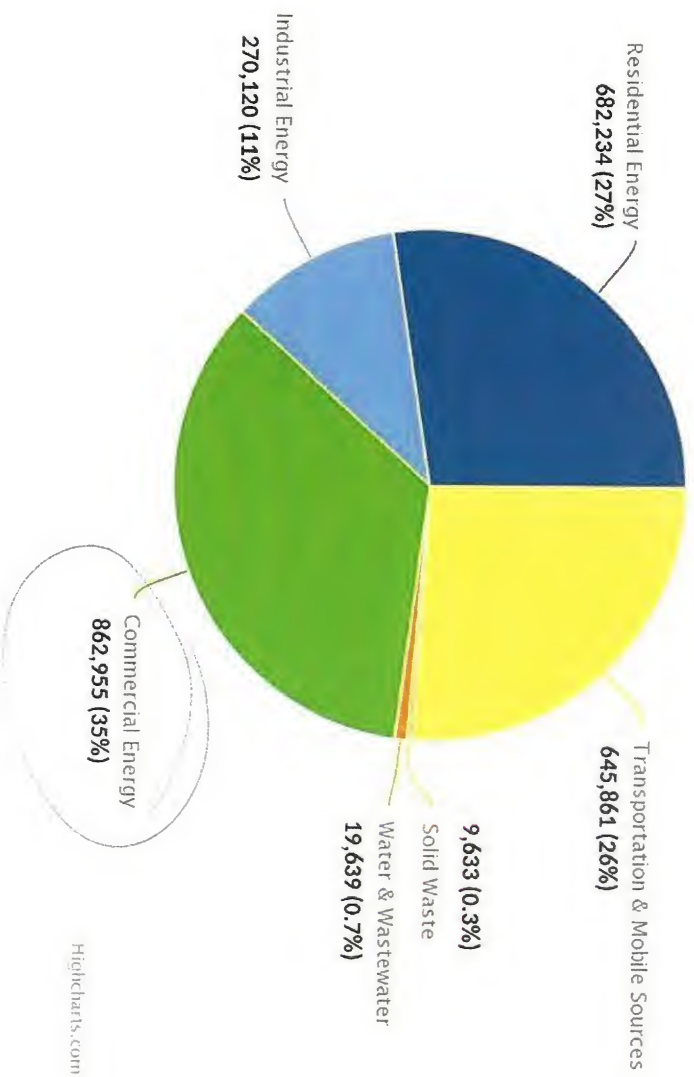
Des Moines Threshold Summary

Threshold (sqft)	Number of Buildings	%	Total Square Footage	%
10,000 and greater	1,508	32.9%	93,688,455	82.9%
20,000 and greater	977	21.3%	86,132,385	76.2%
25,000 and greater	819	17.9%	82,577,940	73.1%
30,000 and greater	727	15.9%	80,066,563	70.8%
50,000 and greater	478	10.4%	70,308,450	62.2%
Total	4,585	-	113,030,934	-



Des Moines 2017 GHG Inventory Data

Figure ES 1: 2017 GHG Inventory for Community of Des Moines, IA
(MT CO₂e)



* Emissions
Hidden



Des Moines Commercial Building Analysis – Benchmarking & Reporting 25,000 sq. ft. 2020-2023; Performance Verification 50,000 sq. ft. beginning 2024 (once every five years)

Buildings above 25,000 sq. ft. 889 Total less 70 classified Industrial = 819

Government Buildings City of Des Moines – 16

Polk County – 11

State of Iowa – 15

Total – 42

Covered non-government buildings = 777

Buildings above 50,000 sq. ft. 522 Total less 44 classified Industrial = 478

Government Buildings City of Des Moines – 9

Polk County – 8

State of Iowa – 12

Total – 29

Covered non-government buildings = 449